

117TH CONGRESS
2D SESSION

H. R. 9489

To direct the Secretary of Energy to establish a National Laboratory Biotechnology Program to address biotechnology threats, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

DECEMBER 12, 2022

Mr. FOSTER (for himself and Ms. LEGER FERNANDEZ) introduced the following bill; which was referred to the Committee on Science, Space, and Technology, and in addition to the Committees on Armed Services, and Energy and Commerce, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To direct the Secretary of Energy to establish a National Laboratory Biotechnology Program to address biotechnology threats, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-
2 tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “National Laboratory
5 Biotechnology Research Act of 2022”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

1 (1) DEPARTMENT.—The term “Department”
2 means the Department of Energy.

3 (2) NATIONAL LABORATORY.—The term “Na-
4 tional Laboratory” has the meaning given the term
5 in section 2 of the Energy Policy Act of 2005 (42
6 U.S.C. 15801).

7 (3) NNSA.—The term “NNSA” means the Na-
8 tional Nuclear Security Administration.

9 (4) OFFICE.—The term “Office” means the
10 joint program office established under section 3(b).

11 (5) OFFICE OF INTELLIGENCE AND COUNTER-
12 INTELLIGENCE.—The term “Office of Intelligence
13 and Counterintelligence” means the Office of Intel-
14 ligence and Counterintelligence of the Department.

15 (6) OFFICE OF SCIENCE.—The term “Office of
16 Science” means the Office of Science of the Depart-
17 ment.

18 (7) PROGRAM.—The term “Program” means
19 the National Laboratory Biotechnology Program es-
20 tablished under section 3(a).

21 (8) SECRETARY.—The term “Secretary” means
22 the Secretary of Energy.

1 **SEC. 3. NATIONAL LABORATORY BIOTECHNOLOGY PRO-**

2 **GRAM.**

3 (a) IN GENERAL.—The Secretary shall establish a
4 National Laboratory Biotechnology Program to integrate
5 the resources of the Department, including the Office of
6 Science, the Office of Intelligence and Counterintelligence,
7 and the NNSA, to provide research, development, test and
8 evaluation, and response capabilities to respond to—

9 (1) long-term biotechnology threats facing the
10 United States; and
11 (2) any remaining threats posed by COVID–19.

12 (b) JOINT PROGRAM OFFICE.—To carry out the Pro-
13 gram, the Secretary shall establish a joint program office,
14 which shall comprise appropriate leadership from the Of-
15 fice of Science, the NNSA, and the National Laboratories.

16 (c) FUNCTIONS.—The Office shall—

17 (1) oversee the development and operation of
18 major research activities of the Program;

19 (2) periodically review and recommend updates
20 as necessary to Program policies and guidelines for
21 the development and operation of major research ac-
22 tivities;

23 (3) collaborate with the directors of research di-
24 rectorates of the Department, directors of National
25 Laboratories, and other senior Department officials,
26 as appropriate, to gain greater access to top re-

1 searchers and new and potentially transformative
2 ideas;

3 (4) enable access to broad scientific and tech-
4 nical expertise and resources that will lead to the de-
5 ployment of innovative products, including
6 through—

7 (A) research and development, including
8 proof of concept, technical development, and
9 compliance testing activities; and

10 (B) early-stage product development, in-
11 cluding through—

12 (i) computational modeling and sim-
13 ulation;

14 (ii) molecular structural determina-
15 tion;

16 (iii) genomic sequencing;

17 (iv) epidemiological and logistics sup-
18 port;

19 (v) knowledge discovery infrastructure
20 and scalable protected data;

21 (vi) advanced manufacturing to ad-
22 dress supply chain bottlenecks;

23 (vii) new capabilities for testing of
24 clinical and nonclinical samples;

(viii) understanding environmental fate and transport of viruses; and

(ix) discovery of potential therapeutics through computation and molecular structure determination;

6 (5) provide access to user facilities with ad-
7 vanced or unique equipment, services, materials, and
8 other resources to perform research and testing;

9 (6) support technology transfer and related ac-
10 tivities; and

17 (d) BIODEFENSE EXPERTISE.—

24 (A) support the near- and long-term bio-
25 defense needs of the United States;

(B) support the national security community in reducing uncertainty and risk;

(C) enable greater access to top researchers and new and potentially transformative ideas for biodefense of human, animal, plant, environment, and infrastructure assets (including physical, cyber, and economic infrastructure); and

(D) enable access to broad scientific and technical expertise and resources that will lead to the development and deployment of innovative biodefense assessments and solutions, including through—

(i) the accessing, monitoring, and evaluation of biological threats to reduce risk, including through analysis and prioritization of gaps and vulnerabilities across open-source and classified data;

(ii) development of scientific and technical roadmaps—

(I) to address gaps and vulnerabilities;

(II) to inform analyses of technologies; and

19 (e) STRENGTHENING INSTITUTIONAL RESEARCH
20 AND PRIVATE PARTNERSHIPS.—

21 (1) IN GENERAL.—The Office shall, to the max-
22 imum extent practicable, promote cooperative re-
23 search and development activities under the Pro-
24 gram, including collaboration between appropriate

1 industry and academic institutions to promote innovation
2 and knowledge creation.

3 (2) ACCESSIBILITY OF INFORMATION.—The Office
4 shall develop, maintain, and publicize information
5 on scientific user facilities and capabilities sup-
6 ported by laboratories of the Department for com-
7 bating biotechnology threats, which shall be acces-
8 sible for use by individuals from academic institu-
9 tions and industry.

10 (3) ACADEMIC PARTICIPATION.—The Office
11 shall, to the maximum extent practicable—

12 (A) conduct outreach about internship op-
13 portunities relating to activities under the Pro-
14 gram primarily to institutions of higher edu-
15 cation (as defined in section 101 of the Higher
16 Education Act of 1965 (20 U.S.C. 1001)) and
17 minority-serving institutions of higher edu-
18 cation;

19 (B) encourage the development of research
20 collaborations between research-intensive uni-
21 versities and the institutions described in sub-
22 paragraph (A); and

23 (C) provide traineeships at the institutions
24 described in subparagraph (A) to graduate stu-
25 dents who pursue a masters or doctoral degree

1 in an academic field relevant to research ad-
2 vanced under the Program.

3 (f) EVALUATION AND PLAN.—

4 (1) IN GENERAL.—Not less frequently than bi-
5 ennially, the Secretary shall—

6 (A) evaluate the activities carried out
7 under the Program; and

8 (B) develop a strategic research plan under
9 the Program, which shall be made publicly
10 available and submitted to the Committee on
11 Energy and Natural Resources of the Senate
12 and the Committee on Energy and Commerce
13 of the House of Representatives.

14 (2) CLASSIFIED INFORMATION.—If the stra-
15 tegic research plan developed under paragraph
16 (1)(B) contains classified information, the plan—

17 (A) shall be made publicly available and
18 submitted to the committees of Congress de-
19 scribed in paragraph (1)(B) in an unclassified
20 format; and

21 (B) may, as part of the submission to
22 those committees of Congress only, include a
23 classified annex containing any sensitive or clas-
24 sified information, as necessary.

1 (g) INTERAGENCY COLLABORATION.—The Office
2 may collaborate with the Secretary of Homeland Security,
3 the Secretary of Health and Human Services, the Sec-
4 retary of Defense, and the heads of other appropriate Fed-
5 eral departments and agencies to advance biotechnology
6 research and development under the Program.

7 (h) AUTHORIZATION OF APPROPRIATIONS.—There
8 are authorized to be appropriated to the Secretary to carry
9 out this section, to remain available until expended—
10 (1) \$30,000,000 for fiscal year 2023;
11 (2) \$40,000,000 for fiscal year 2024;
12 (3) \$45,000,000 for fiscal year 2025; and
13 (4) \$50,000,000 for each of fiscal years 2026
14 and 2027.

